

What is claimed is:

1. An artificial antigen presenting cell comprising:
 - a) liposome components, said components forming lipid bilayers of a liposome;
 - b) GM-1 components, said GM-1 comprising at least one GM-1 molecule, said GM-1 contacting said liposome components;
 - c) cholera toxin β subunit components; said β subunit components comprising at least a portion of said subunit capable of binding a GM-1 molecule;
 - d) MHC components, said MHC components comprising immunologically active molecules and contacting at least said cholera β subunit;
 - e) antigen components, said antigen components contacting at least said MHC components; and
 - f) accessory molecule components, said accessory molecule components providing for a stabilizing property to an interaction between a T cell receptor and said MHC and said antigen components.
2. An artificial antigen presenting cell according to claim 1 wherein said GM-1 components form rafts comprising multiples of said GM-1 molecules in said lipid bilayers.
3. An artificial antigen presenting cell according to claim 2 wherein said rafts are present in said lipid bilayer at high density.
4. An artificial antigen presenting cell according to claim 3 further comprising immunologically active molecules selected from the group consisting of co-stimulatory molecules, adhesion molecules, and cell modulation molecules.

5. An artificial antigen presenting cell according to claim 3 further comprising irrelevant molecules selected from the group consisting of molecules for binding said artificial antigen presenting cell to a solid support, and a label.

5 6. An artificial antigen presenting cell comprising:

- a) liposome components, said components forming lipid bilayers of a liposome;
- b) GM-1 components, said GM-1 comprising at least one GM-1 molecule, said GM-1 contacting said liposome components;
- c) cholera toxin β subunit components; said β subunit components comprising at least a portion of said subunit capable of binding a GM-1 molecule;
- 10 d) tetravidin components, said tetravidin capable of binding said cholera toxin, said tetravidin further capable of binding between 1 and 3 immunologically active molecules;
- e) MHC components, said MHC components comprising immunologically active molecules and contacting at least said cholera β subunit;
- 15 f) antigen components, said antigen components contacting at least said MHC components; and
- g) accessory molecule components, said accessory molecule components providing for a stabilizing property to an interaction between a T cell receptor and said MHC and said antigen components, said accessory molecules comprising said immunologically active molecules of (d).

7. An artificial antigen presenting cell according to claim 6 wherein said GM-1 components form rafts comprising multiples of said GM-1 molecules in said lipid bilayers.

25 8. An artificial antigen presenting cell according to claim 7 wherein said rafts are present in said lipid bilayer at high density.

9. An artificial antigen presenting cell according to claim 8 further comprising immunologically active molecules selected from the group consisting of co-stimulatory molecules, adhesion molecules, and cell modulation molecules.

5 10. An artificial antigen presenting cell according to claim 8 further comprising irrelevant molecules selected from the group consisting of molecules for binding said artificial antigen presenting cell to a solid support, and a label.

11. A method of modulating antigen specific T cells comprising contacting a T cell
10 with an aAPC or claims 1 or 6, incubating said Tcells with said aAPC, and monitoring said T cell for modulation.